
FORM 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  Shoreline

Field No.  Ph-100(52)  Office No.  T-11083

LOCALITY

State  Florida

General locality  Sarasota Bay

Locality  Sister Keys to Buttonwood Harbor

1952/53

CHIEF OF PARTY

J.E. Waugh, Field Unit and Tampa Office

LIBRARY & ARCHIVES

DATE  July 11, 1958
DATA RECORD

Project No. (II): Ph-100(52)  Quadrangle Name (IV):

Field Office (II): Sarasota, Florida  Chief of Party: J. E. Waugh
Photogrammetric Office (III): Tampa, Florida  Officer-in-Charge: J. E. Waugh

Instructions dated (III): 1 December 1952  Copy filed in Division of
Suppl. #1  5 May 1953  Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000  Stereoscopic Plotting Instrument Scale (III): Inapplicable
Scale Factor (III): None

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):
Applied to Chart No.  Date:  Date registered (IV): 4/8/55

Publication Scale (IV):  Publication date (IV):
Geographic Datum (III): N. A. 1927  Vertical Datum (III): M. H. W.

Reference Station (III): TCM, 1878
Lat.: 27° 25' 07.723 (237.7 m.)  Long.: 82° 39' 20.646 (567.1 m.)  Adjusted

Plane Coordinates (IV):
Y =  X =

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(ii) (iii)
DATA RECORD

Field Inspection by (II): W. H. Shearouse
Date: March 1953

Planetary contouring by (II): Inapplicable
Date:

Completion Surveys by (II):
Date:

Mean Highwater Location (III) (State date and method of location):
April 1953 - Air Photog Compilation
Supplemented by photographs flown December 1954

Projection and Grids ruled by (IV): Jack Allen (W.O.)
Date: 12 Dec. 1952

Projection and Grids checked by (IV): H. D. Wolfe (W.O.)
Date: 12 Dec. 1952

Control plotted by (III): I. I. Saperstein - R. R. Wagner
Date: 23 April 1953

Control checked by (III): R. J. Fate - R. Dossett
Date: 23 April 1953

Radial Plotting by (III):
M. M. Slavney
Date: 4 May 1953

Stereoscopic Instrument compilation (III):
Planimetry Inapplicable
Contours
Date:

Manuscript delineated by (III): W. W. Dawsey
Date: 24 Sept. 1953

Photogrammetric Office Review by (III): I. I. Saperstein
Date: 9 October 1953

Elevations on Manuscript checked by (II) (III):
Inapplicable
Date:
Camera (kind or source) (III): USC&GS Nine-lens Camera, 8:25" focal length
Fairchild Cartographic 6" Metrogon lens, Camera "On"

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>52-0-330</td>
<td>11 Feb. 1952</td>
<td>1511</td>
<td>1:10,000</td>
<td>0.4 0.6</td>
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<tr>
<td>52-0-331-336 incl.</td>
<td>n</td>
<td>1512</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>52-0-337-338 incl.</td>
<td>n</td>
<td>1513</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>34891-93 incl.</td>
<td>1 Dec. 1953</td>
<td>1501</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>42787-42789</td>
<td></td>
<td>12</td>
<td></td>
<td>0.8</td>
</tr>
</tbody>
</table>

Tide (III) (Predicted)

<table>
<thead>
<tr>
<th>Reference Station: TAMPA BAY, FLA.</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subordinate Station: CORTEZ, FLA. *</td>
<td></td>
<td>1.5</td>
<td>2.0</td>
</tr>
<tr>
<td>Subordinate Station: ANNA MARIA</td>
<td>0.9</td>
<td>1.3</td>
<td>1.9</td>
</tr>
</tbody>
</table>

Washington Office Review by (IV):
Final Drafting by (IV):
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 2
Shoreline (More than 200 meters to opposite shore) (III): 13
Shoreline (Less than 200 meters to opposite shore) (III): 2
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 10*** Recovered: 7 Identified: 6
Number of BMs searched for (II): 5 Recovered: 2 Identified: 2
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): 59

Remarks:

* Tide computations have been based on tidal differences and constants furnished by the Ship SOSBEE August 1953.

** In addition, ten (10) triangulation intersection stations were established and are listed under Item 3.
Compiled at scale of 1:10,000 from nine-lens photographs taken February 1952
(Refer to Air-Photo Index 129-A)
Summary to Accompany
T-11083

Instructions were written for Project Ph-100
1 December 1952. The purpose was to furnish shoreline
and hydrographic control for a basic hydrographic
survey to be made by the SOSBEE. The combined surveys
would furnish data for the revision of Chart 586 and
for a new 1:40,000 chart for Sarasota Bay.

Both field inspection and compilation of the manu-
scripts were assigned to the personnel of the Tampa
Photogrammetric Office.

On 18 December 1952 instructions were issued for
CS-353, West Coast of Florida, Tampa Bay to Caloosachatchie
River, the Ship SOSBEE to survey the shoreward portions
of the area, and to assist the Photogrammetric Office in
field work as necessary to locate additional control.

A cloth-backed lithographic print of each map
at manuscript scale, together with the descriptive
report, will be registered and permanently filed in
the Bureau Archives.
The Field Inspection Report is bound with T-11081.
PHOTOGRAHMNETIC PLOT REPORT.

Submitted with T-11081.

31. DELINEATION.

The graphic method of compilation was used.

The photographs used in the compilation were clear and generally of good scale. The field inspection was good. No difficulties were encountered.

32. CONTROL.

Sufficient control was identified. Density and placement were of such quality that no difficulties were encountered in the establishment of detail points.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

The drainage was shown as indicated by the field inspection and as interpreted from the photographs.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was good. Alongshore details have been delineated according to the field inspection notes.

36. OFFSHORE DETAILS.

No difficulties were encountered in the delineation of offshore details.
37. LANDMARKS AND AIDS.

Landmarks will be reported on by the hydrographic party.

Form 567 for Nonfloating Aids was forwarded to the Washington Office on 10 August 1953.

38. CONTROL FOR FUTURE SURVEYS.

Two (2) recoverable topographic stations of use to the hydrographer were relocated on this survey and are being submitted with this report. They are listed under Item 49. All positions determined on this survey supersede previous positions.

No temporary photo-hydro stations are listed under Item 49 as they were furnished directly to the hydrographic party. (In sketch books - Tm. 274)

39. JUNCTIONS.

T-11081 - to the north - in good agreement.
T-11084 - to the east - in good agreement.
T-11085 - to the south - in good agreement.
No contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Corps of Engineers topographic quadrangle BRADENTON BEACH, FLORIDA, scale 1:31,680, edition of 1944. Changes in the topography that have taken place are shown on the map manuscript.
Comparison was also made with USC&GS Planimetric Maps T-5847 and T-5848, scale 1:10,000, edition of 1944. Minor cultural changes have taken place.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 1256, scale 1:80,000, published in March 1943, 3rd edition, corrected to 3 October 1952.

Maps listed under Item 46 are the source of most of the topography on this chart and the same differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

W. W. Dawsey
Carto Photo Aid

APPROVED AND FORWARDED:

William A. Rasmussen
for J. E. Waugh, Chief of Party
48. GEOGRAPHIC NAME LIST.

Only Base Map names have been shown.

BUTTONWOOD HARBOR
CRANES BAYOU
FLORIDA
GULF OF MEXICO
LONGBOAT KEY
SARASOTA BAY
SISTER KEYS

WHALE KEY
WHITE KEY
WHITNEY BEACH
49. **NOTES FOR THE HYDROGRAPHER.**

The following topographic stations will be of use to the hydrographic party:

Q 92, 1942 (1943) 1953

P 92, 1942 (1943) 1953
19 August 1953

To: Chief, Photogrammetry Division
U. S. Coast & Geodetic Survey
Washington 25, D.C.

Subject: Fixed Aids to Navigation — Project Ph-100
Sarasota Bay and Sarasota Pass

Your attention is invited to the tabulation below. The published values are from the "COMPLETE LIST OF LIGHTS AND OTHER MARINE AIDS", Volumes I - VI as corrected to 1 January 1953. Forms 567 for these aids were forwarded on 10 August 1953.

<table>
<thead>
<tr>
<th>Range Name</th>
<th>Survey No.</th>
<th>Distance and Direction From Front Light To Rear Light</th>
<th>From 1953 Light List</th>
<th>Value from Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Distance Yards</td>
<td>Direction º</td>
<td>Distance Yards</td>
</tr>
<tr>
<td>North Range</td>
<td>T-11079</td>
<td>300</td>
<td>143</td>
<td>345</td>
</tr>
<tr>
<td>South Range</td>
<td>T-11079</td>
<td>400</td>
<td>029</td>
<td>400</td>
</tr>
<tr>
<td>South Turn Range</td>
<td>T-11083</td>
<td>1,400</td>
<td>130</td>
<td>1,700</td>
</tr>
<tr>
<td>Barge Channel</td>
<td>T-11085</td>
<td>700</td>
<td>251</td>
<td>690</td>
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</tbody>
</table>

Distance and Direction From Front Day-beacon To Rear Daybeacon

South Entrance Range
T-11083

350       265       855       265

/s/ J. E. Waugh
J. E. Waugh
CDR, USC&GS

cc. CO SCSBEE

Officer in Charge
## TIDE COMPUTATION

### Project No. Ph.100 T.11083

<table>
<thead>
<tr>
<th>Time and date of exposure</th>
<th>Reference station</th>
<th>Subordinate station</th>
<th>Mean range</th>
<th>Ratio of ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>1512 2/11/52</td>
<td>TAMPA BAY</td>
<td>CORTEZ, FLORIDA</td>
<td>1.3</td>
<td>0.9</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Date of field inspection</th>
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### Tide Data

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>High tide</td>
<td>14 07</td>
<td>0.7</td>
</tr>
<tr>
<td>Low tide</td>
<td>18 59</td>
<td>0.0</td>
</tr>
<tr>
<td>Duration of rise or fall</td>
<td>4 52</td>
<td>0.6</td>
</tr>
</tbody>
</table>

<table>
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<tr>
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<tr>
<td>Low tide</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Range of tide</td>
<td>0.6</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Time difference</th>
<th>Corrected time at Subordinate station</th>
</tr>
</thead>
<tbody>
<tr>
<td>High tide at Ref. Sta.</td>
<td>15 27</td>
<td>14 07</td>
</tr>
<tr>
<td>Low tide at Ref. Sta.</td>
<td>20 19</td>
<td>18 59</td>
</tr>
<tr>
<td>Time difference</td>
<td>-1 20</td>
<td></td>
</tr>
</tbody>
</table>

### Tidal Calculations

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Stage of tide above MLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. T. 14 07</td>
<td>0.6</td>
<td>Feature bares</td>
</tr>
<tr>
<td>Required time</td>
<td>15 12</td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td>Interval</td>
<td>1 05</td>
<td>Feature above MLW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Stage of tide above MLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. T. or L. T. 14 07</td>
<td>0.6</td>
<td>Feature bares</td>
</tr>
<tr>
<td>Tabular correction</td>
<td>0.0</td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td>Stage of tide above MLW</td>
<td></td>
<td>Feature above MLW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Stage of tide above MLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. T. or L. T. 14 07</td>
<td>0.6</td>
<td>Feature bares</td>
</tr>
<tr>
<td>Tabular correction</td>
<td>0.0</td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td>Stage of tide above MLW</td>
<td></td>
<td>Feature above MLW</td>
</tr>
</tbody>
</table>

### Photo Numbers

- 52-0-332
## TIDE COMPUTATION

**PROJECT NO. Ph100 T. 11083**

**Time and date of exposure:** 1512 2/11/52  
**Reference station:** TAMPA BAY  
**Subordinate station:** ANNA MARIA  
**Mean range:** 1.4  
**Ratio of ranges:** 0.9

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height at Ref. Sta.</th>
<th>Time difference</th>
<th>Corrected time at Subordinate station</th>
</tr>
</thead>
<tbody>
<tr>
<td>High tide</td>
<td>0.7</td>
<td>0.6</td>
<td>15</td>
<td>27</td>
<td>-2 20</td>
<td>13 07</td>
</tr>
<tr>
<td>Low tide</td>
<td>0.0</td>
<td>0.0</td>
<td>20</td>
<td>19</td>
<td>-2 20</td>
<td>17 59</td>
</tr>
</tbody>
</table>

| Time H. T. | 13 07 | Tabular correction | Ht. H. T. | 0.6 | Feature bares | Stage of tide above MLW | Feature above MLW |
| Required time | 15 12 | Stage of tide above MLW | | 0.2 | Feature bares | Stage of tide above MLW | Feature above MLW |
| Interval | 2 05 | Stage of tide above MLW | | 0.4 | Feature bares | Stage of tide above MLW | Feature above MLW |

Composed by W. W. Dawsey  
Checked by I. I. Saperstein
50.

PHOTOGRAMMETRIC OFFICE REVIEW
T. 11083


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) IIS  7. Photo hydro stations IIS  8. Bench marks IIS

ALONGSHORE AREAS
(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines XX  32. Public land lines XX

MISCELLANEOUS


40. I. A. Supestein
    Reviewer

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

43. Remarks:
61. General

This is a revision survey which included a newly-delineated total shoreline, but only such interior features as will amend the 1944 surveys (T-5847, T-5848).

62. Comparison with Registered Surveys

T-5847  1:10,000  1944
T-5848  1:10,000  1944

The shoreline on T-11083 supersedes and the interior detail supplements that on the older surveys for charting.

63. Comparison with Maps of Other Agencies

USE Bradenton Beach 1:25,000  1948

T-11083 supersedes the quadrangle for charting

64. Comparison with Contemporary Hydrographic Surveys

H-8035  1:10,000  1953 - Tampa Bay, Sarasota Bay

The shoreline is that of T-11083 (Longboat Key) except that a file was added to the manuscript just north of hydro-station 8317 (BEN); and a slip was added and the shoreline changed just south of hydro-station 8311 (COD).

65. Comparison with Nautical Charts

1256  1:80,000  Ed March 1943 Revision January 1955

Numerous cultural changes have occurred on Longboat Key since the chart was compiled.

66. Accuracy

The manuscript complies with project instructions and meets the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens
# Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 6</td>
<td>857</td>
<td>Mitchell</td>
<td>Before—After Verification and Review</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
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<td></td>
<td></td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.